ACME
the game company

ENGLISH

zoopa 350

Manual

14+ JAHRE | YEARS | ANS

V1.05 – 2013

Read the entire user's manual to become familiar with the characteristics of the product before using it. Incorrect use of the product may lead to damage of the product, to personal property or cause serious injury. This is an advanced hobby product. It must be operated with caution and requires some basic mechanical ability. Failure to operate this product in a safe and responsible manner can result in injury or damage to property. This product is not intended to be used by children under 14 years. Teenagers should always be accompanied by an adult when flying.

This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual prior to assembly, setup or use, in order to be able to use the product correctly and avoid damage or serious injury.

INDEX

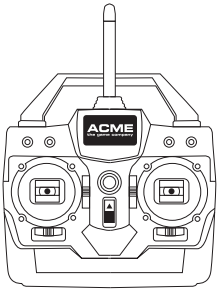
Content of the Box	17
Exploded View	18
Technical Data	19
Tuning possibilities	19
BC4024 2.4 GHz Controller	20
Charging the helicopter	20
Connecting the controller with the helicopter	20
How to fly	21
Helicopter steering	22
Trim/Adjust	23
Flight maneuvers	24
FAQ	24
Safety Advice	24
Warranty	25
Service & Support	25

CONTENT OF THE BOX

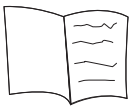
! **Please make sure that the set is complete before will use the helicopter for the first time*:**

1 x Helicopter Model:

zoopa 350

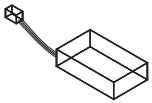


Controller 2.4 GHz BC4024

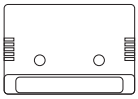


Manual

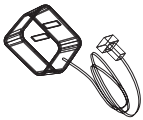
Phillips Screwdriver



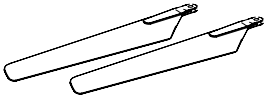
LiPo 7,4V 850 mAh 2S



LiPo Charger with Balancer



240 V Power Adapter



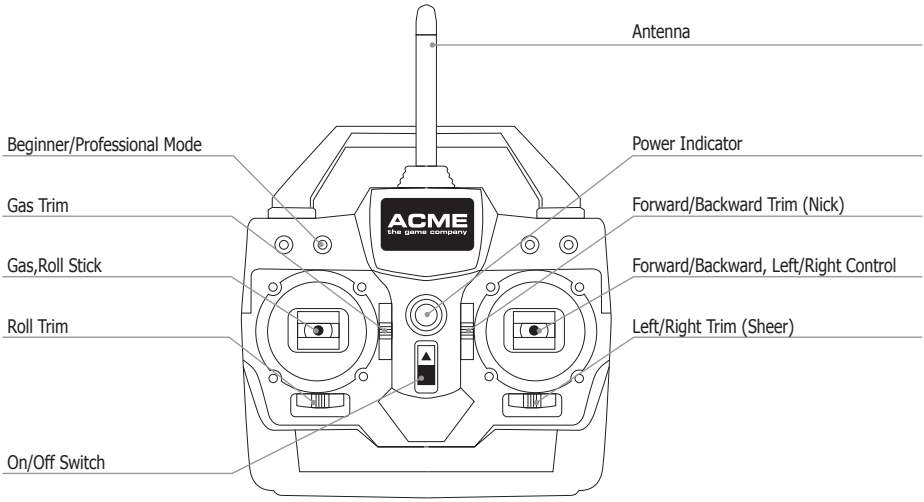
Spare Blades

Tail Rotor

Balance Bar

* Before you can start using the helicopter, you need to insert 8 x AA 1,5 V batteries into the controller. These are not included in the set.

BC4024 2.4 GHZ CONTROLLER



At the backside of the controller, there is the Reset Button located next to the battery compartment.

CHARGING THE HELICOPTER

- » To charge the LiPo battery, connect the power adaptor with the charger.
- » Connect the white balancer plug with the charger port.
- » Charging takes, depending on the battery condition, up to one hour. The LED flashes green when the battery is fully charged.

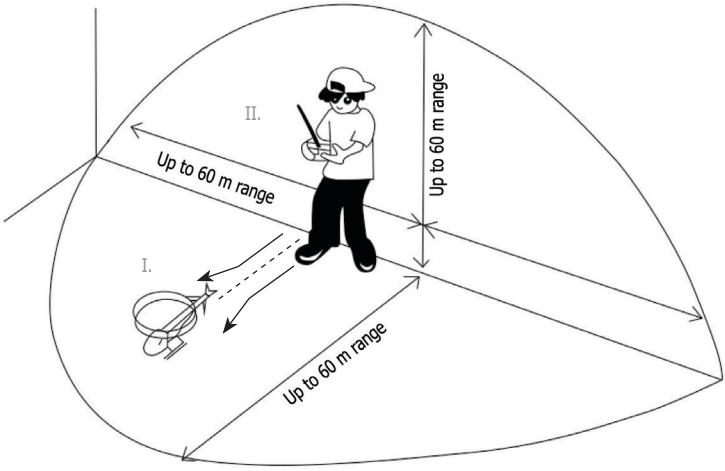
Always follow the safety instructions of this manual when charging the battery (Chapter: Safety Advice S. 25).

BINDING THE CONTROLLER WITH THE HELICOPTER

Perform the binding process as followed:

- » Insert 8 AA 1,5V batteries into the controller.
- » The helicopter needs to be switched off! Connect the battery plugs.
- » Place the helicopter on a plain surface and let the tail rotor point into your direction.
- » Switch ON the helicopter.
- » Pull the gas stick of the controller towards the lower left corner and hold it while you switch on the controller.
- » A minimal servo reaction of the helicopter is being heard.
- » Put the gas stick into neutral position.
- » Switch OFF the controller.
- » Leave the helicopter turned ON.
- » Get 3 meters away from the model and switch ON the controller again.
- » Done!

HOW TO FLY



Caution

- **Before flying check the correct movement of the swash plate by right stick control.**
- **Please note that flying at bad weather conditions (rain/wind) is not possible.**
- **As soon as the voltage of the controller batteries drops down, you will hear an alert signal. Replace the batteries as soon as possible. Do not continue flying.**

I. DRIFT

The zoopa 350 is an excellent Single-Blade helicopter that has been especially developed to enter into 4-Channel helicopter flight. Attention should be paid to the fact, that 4-Channel helicopters tend to drift away into one direction. This drift can only be minimized by countersteering with the controller at all time.

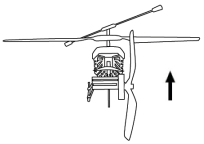
II. RANGE

The range of the controller is about 60 m. Avoid crashes against the ceiling or other obstacles – this causes damages to the helicopter. Optimal flight can be reached at about 1 m height.

BEGINNER/ PROFESSIONAL MODE

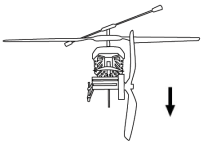
Move down the dual-rate-switch for beginner mode: The servo movements are now reduced by 40 %. Move up the switch for professional mode with 100 % amplitude and full agility.

HELICOPTER STEERING



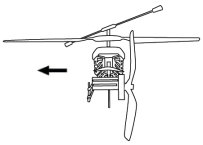
UP

to ascent, move up the left stick.



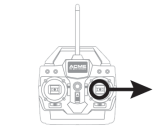
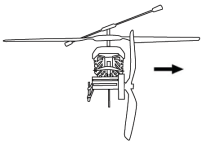
DOWN

to descent, move down the left stick slowly.



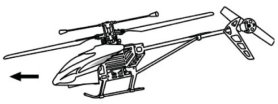
MOVE LEFT (ROLL)

pan to the left, move the right stick to the left.

MOVE RIGHT (ROLL)

pan to the right, move the right stick to the right.

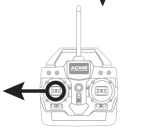
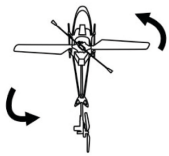


FORWARD (NICK)

flying forward, move up the right stick.

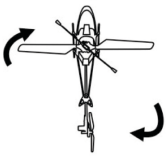
BACKWARD (NICK)

flying backwards, move down the right stick.

LEFT ROTATION (SHEER LEFT)

turn around its own axis counterclockwise, move the left stick to the left.

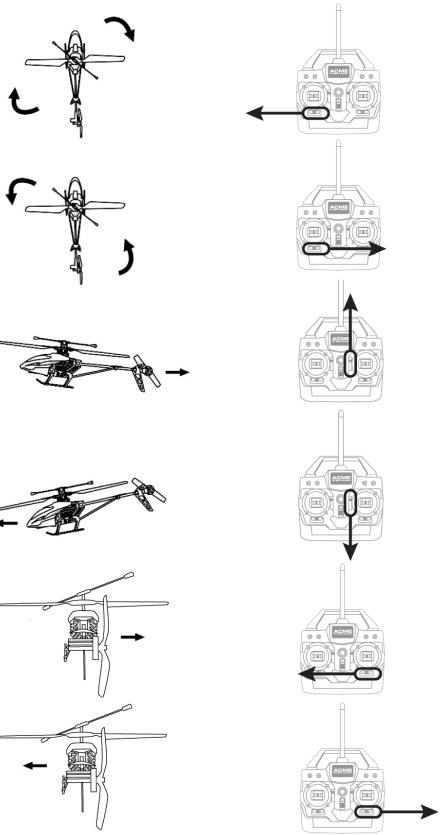


RIGHT ROTATION (SHEER RIGHT)

turn around its own axis clockwise, move the left stick to the right.

TRIM / ADJUST

If the helicopter turns or drifts to one side after start, you can adjust the movements with the trims.
Move the corresponding trims against the drift movements as shown below.



DRIFT ROTATION TO THE RIGHT (SHEER TRIM)

if the helicopter is turning right, press the digital sheer trim button to the left until the result is satisfying.

DRIFT ROTATION TO THE LEFT (SHEER TRIM)

if the helicopter is turning left, press the digital sheer trim button to the right until the result is fine.

DRIFT BACKWARDS

if the helicopter is moving backwards, press the digital nick trim button to the top until the helicopter stops moving backwards.

DRIFT FORWARDS

if the helicopter is moving forward, press the digital nick trim button downwards until the helicopter stops moving forward .

DRIFT RIGHT (ROLL)

if the helicopter pans right, press the digital roll trim button to the left.

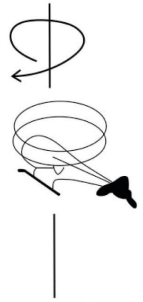
DRIFT LEFT (ROLL)

if the helicopter pans left, press the digital roll trim button to the right.

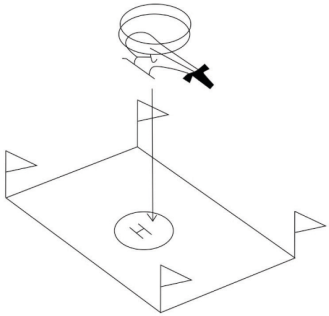
! **Attention should be paid to the fact, that 4-Channel helicopters tend to drift away into one direction. This drift can only be minimized by countersteering with the controller at all time.**

FLIGHT MANEUVERS

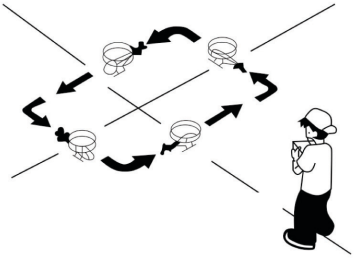
If you have gained some experience, you can try to realize the following maneuvers.



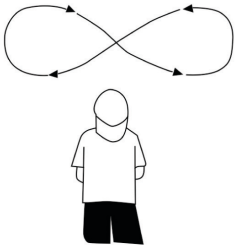
Turn on the spot



Landing on a specified point



Flying a rectangle

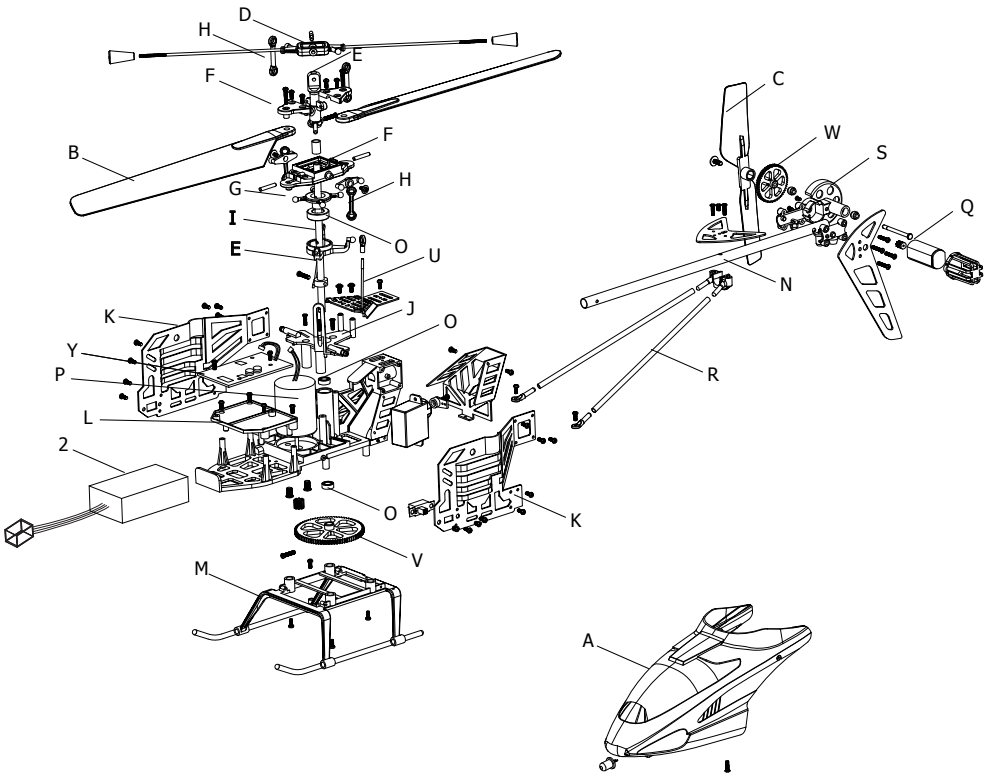


Flying a recumbent eight

FAQ

Error	Reason	Solution
The helicopter does not react on controls	Batteries are not inserted in the controller correctly	Check batteries
	Batteries are empty	Charge the batteries
	Binding was not correct	Check chapter "Binding"
	Controller batteries are weak/empty	Replace controller batteries
The helicopter does not gain height	The Battery is weak	Recharge the battery
The range is not sufficient	Controller batteries are too weak	Replace controller batteries
	The Antenna inside the model is too close to the PCB	Open the canopy and check the antenna

EXPLODED VIEW



SPARE PARTS

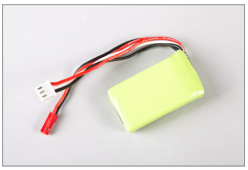
	Item No.	Article		Item No.	Article		Item No.	Article
A	**AA0350-A**	Canopy	J	**AA0350-J**	Upper Frame	S	**AA0350-S**	Complete Tail
B	**AA0350-B**	Main Blades	K	**AA0350-K**	Main Frame	T	**AA0350-T**	Servos
C	**AA0350-C**	Tail Rotor Blade	L	**AA0350-L**	Battery Frame	U	**AA0350-U**	Steering Rod
D	**AA0350-D**	Balance Bar	M	**AA0350-M**	Landing Skids	V	**AA0350-V**	Main Gear
E	**AA0350-E**	Rotorcenter Assembly	N	**AA0350-N**	Tail Pipe	W	**AA0350-W**	Tail Gear Set
F	**AA0350-F**	Carriage	O	**AA0350-O**	Bearing Set	2	**AA0350-2**	Battery 7,4 V LiPo 850 mAh
G	**AA0350-G**	Swash Plate	P	**AA0350-P**	Main Motor	Y	**AA0350-Y**	Mainboard
H	**AA0350-H**	Linkage Set	Q	**AA0350-Q**	Tail Motor			
I	**AA0350-I**	Rotorshaft	R	**AA0350-R**	Rod Components			

www.acme-online.net

TECHNICAL DATA

Length:	390 mm
Height:	135 mm
Weight:	265 g
Motors:	370 category
Battery:	LiPo 7,4 V 850 mAh 2S
Controller:	BC4024 2,4 GHz 4 Channel

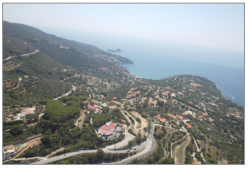
TUNING OPTIONS



MAXIMUM FLIGHT EXPERIENCE

Raise the flight time of the zoopa 350 with a bigger 1000mAh battery and witness a clearly extended flight fun in a few quick steps.

Battery LiPo 1000mAh – Art. No.: AA0350-X



PHOTOS AND VIDEOS FROM THE AIR

Record sensational videos from the air or shoot breathtaking landscapes and buildings. The FlyCamOne eco V2 makes it possible. More detailed information at

www.camonetec.com

FlyCamOne eco V2 – Art. No.: FC2450

TRAINING KIT

Everyone starts small. In order to learn flying as gently as possible, we have invented the training assistance for you.

Landing gear – Art. No.: AA0353

SAFETY ADVICE

The product contains LiPo batteries. Take used up batteries to a scheduled collecting point.

Information about the contained LiPo battery inside the helicopter

Mishandling may lead to explosion, fire and smoke including damage of health or goods. Replace the battery by a recommended battery of the same type. Dispose of used batteries in the appropriate manner. Never charge with reversed polarity – permanent damage, fire and smoke may occur! Do not short-circuit – risk of explosion and fire! **Avoid temperature of the LiPo battery being higher than 40 °C.**

Important Battery Information

Always use AA alkaline batteries. If inappropriate batteries are used in the transmitter, they may become hot, leak and may rupture. Follow these precautions:

- Do not mix different types of batteries, or old and new batteries.
- When changing batteries, replace ALL of the old batteries by new ones.
- Make sure the batteries are installed with the correct polarity as shown in the battery compartment.
- Do not disassemble your transmitter batteries. Do not let them become hot or even start burning. To avoid short-circuits, avoid them getting wet.
- If liquid from inside the batteries encounters your skin or clothes, wash it off with water. If emergent battery fluid gets into your eyes, rinse them with cold water immediately and seek medical advice. Do not rub your eyes!

CE Dispose of empty batteries at a recycling centre.Herewith we declare that this item is in accordance with the essential requirements and other relevant regulations of the directive 1999/5/EC. A copy of the original declaration of conformity can be obtained at the following address.

Information for disposal of crossed Bin marked products

DE6989527

This symbol is marked on a product or packaging, it means that the product including the batteries must not be disposed of with your general household waste. Only discard electrical/electronic items in separate collection schemes, which cater for the recovery and recycling of materials contained within. Your co-operation is vital to ensure the success of these schemes and for the protection of the environment.

General safety advice

- Never fly close to other people!
- Do not fly in areas with obstacles that may complicate the flight!
- Do not fly when it is too windy. Close windows and doors!
- Do not try to catch the helicopter in mid-air when flying. Danger of injury!
- Avoid to touch the helicopter with clothes, hair or fingers.

WARRANTY

! **Please avoid crashing the helicopter. It may change the flight characteristics.**

! **Defects caused due to mechanical influence are not covered by guarantee.**

SERVICE & SUPPORT

ACME the game company GmbH
Boikweg 24
33129 Delbrück
Germany

Phone: +49 2944 97 383-0
E-Mail: service@acme-online.de
www.acme-online.net

ACME
the game company

zoopa 350

www.acme-online.net